

Notice of Allowability

Application No.

10/724,370

Examiner

James Mackey

Applicant(s)

LEYDEN ET AL.

Art Unit

1722

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 102-117.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 2/24/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20051212.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ralph D'Alessandro on 12 December 2005.

The application has been amended as follows:

Claim 1 has been cancelled; the status of claim 1 is as follows:

Claim 1. (Cancelled).

In the specification at page 1, lines 5-6, after "filed August 6, 2001," the following has been inserted: --now U.S. Patent 6,660,209, issued December 9, 2003;--.

2. The following is an examiner's statement of reasons for allowance: The prior art of record does not teach or fairly suggest an apparatus for forming a three-dimensional object in successive layers, comprising a dispenser having a plurality of orifices extending in a direction angled to a scan direction, the dispenser connected to a source of flowable build material which is a radiation-curable material and flowable support material for selective deposition from the orifices thereof onto a support platform, and a controller connected to the dispenser for controlling relative movement of the dispenser and platform, the controller causing the build material to be dispensed according to a build style specifying and forming the object, and the support material to be dispensed according to a support style specifying and forming supports for the object selected from checkerboard, column, arch and line supports and combinations thereof, as claimed in claim 102.

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While the prior art of record discloses apparatus for forming a three-dimensional object in successive layers comprising a dispenser and platform connected with a controller for controlling relative movements thereof, wherein the dispenser may be connected to a source of radiation-curable material, and the prior art of record also discloses apparatus for forming a three-dimensional object in successive layers comprising a controller for causing material to be formed in either a build style or a support style, the prior art of record does not teach or fairly suggest an apparatus as claimed wherein the dispenser has orifices extending in a direction angled to a scan direction and is coupled to a source of flowable build material which is a radiation-curable material and flowable support material for selective deposition from the orifices thereof onto a support platform, and further wherein the controller functions to cause the build material to be dispensed according to a build style specifying and forming the object, and the support material to be dispensed according to a support style specifying and forming supports for the object selected from checkerboard, column, arch and line supports and combinations thereof, as claimed in claim 102.

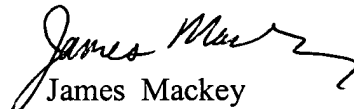
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Mackey whose telephone number is 571-272-1135. The examiner can normally be reached on M-F, 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



James Mackey
Primary Examiner
Art Unit 1722

12/12/05

jpm
December 12, 2005